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(71) Applicant (for all designated States except US): KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HENDRIKS, Bernardus, H., W. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). DE JONGH, Mathijs [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). COENE, Willem, M., J., M. [BE/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). LIEDENBAUM, Coen, T., H., F. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agent: VISSER, Derk; Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

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(54) Title: OPTICAL SCANNING DEVICE

(57) Abstract: An optical scanning device for scanning an optical record carrier comprising an information layer. Crosstalk cancellation is provided using a phase modulating element (40, 140) for generating a non-rotationally-symmetric phase profile in a subsidiary radiation beam. The phase profile varies with an azimuthal angle measured about the optical axis of the beam portion, the phase profile varying such that successively different phases are introduced in at least five locations which are each at successive azimuthal angles (????????N) and each at a given radial distance from the optical axis, wherein the phase profile is such that the phases introduced, when taken in modulo 2π form, successively cycle through 0 to 2π at least twice, whereby the subsidiary beam spot is provided with an intensity distribution on the information layer which overlaps that of the side-lobe of the main beam spot.

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 349 592 A (ANDO HIDEO) 20 September 1994 (1994-09-20) column 6, line 27 - column 34, line 2; figures	1-13
A	US 5 838 502 A (KIM JIN YONG ET AL) 17 November 1998 (1998-11-17) column 6, line 1 - column 8, line 61; figures	1, 13
A	US 6 373 808 B1 (JEONG SEONG YUN) 16 April 2002 (2002-04-16) column 4, line 19 - column 6, line 3; figures	1, 13
A	EP 0 735 527 A (MATSUSHITA ELECTRIC IND CO LTD) 2 October 1996 (1996-10-02) page 8, line 36 - page 18, line 35; figures	1, 13

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Geoghegan, C

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